

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

RECEIVED

2005 -05- 2 0

U-A PD

Applicant's or agent's file reference <b>PU0407-PCT</b>	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/SE 2005/000229</b>	International filing date ( <i>day/month/year</i> ) <b>21 February 2005</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>26 February 2004</b>
Applicant <b>AMERSHAM BIOSCIENCES AB et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2005/000229

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12N 15/10, B01D 15/08, B01J 41/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B01D, C12N, B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9963076 A1 (THE IMMUNE RESPONSE CORPORATION), 9 December 1999 (09.12.1999), claims 1-2, abstract  --	1-13,15-19
X	WO 0137987 A1 (AMERSHAM PHARMACIA BIOTECH AB), 31 May 2001 (31.05.2001), page 25, line 29 - page 26, line 20, claims 11,13-14, abstract  --	1-13,15-19
X	US 6270970 B1 (CRAIG E. SMITH ET AL), 7 August 2001 (07.08.2001), column 23, line 35 - column 24, line 35, abstract  --	1-13,15-19

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

11 May 2005

Date of mailing of the international search report

19-05-2005

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Lars Wallentin/MP

Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2005/000229

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20010014650 A1 (GRAIG E. SMITH ET AL), 16 August 2001 (16.08.2001), claims 1-2, abstract  --	1-13,15-19
A	US 20030171443 A1 (CHRISTOPH ERBACHER), 11 Sept 2003 (11.09.2003), abstract  --	1,10,16
A	US 20020001812 A1 (CRAIG E. SMITH ET AL), 3 January 2002 (03.01.2002), abstract  -- -----	1,10,16

## INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/2005

International application No.

PCT/SE 2005/000229

WO	9963076	A1	09/12/1999	AU	4314099	A	20/12/1999
				CA	2269567	A	29/11/1999
				US	20020001371	A	03/01/2002
<hr/>							
WO	0137987	A1	31/05/2001	AU	1704701	A	04/06/2001
				CA	2392374	A	31/05/2001
				EP	1232006	A	21/08/2002
				JP	2003514655	T	22/04/2003
				SE	9904272	D	00/00/0000
<hr/>							
US	6270970	B1	07/08/2001	AT	272111	T	15/08/2004
				AU	774810	B	08/07/2004
				AU	4841500	A	05/12/2000
				CA	2372521	A	23/11/2000
				DE	60012506	D	00/00/0000
				EP	1179056	A,B	13/02/2002
				JP	2002543980	T	24/12/2002
				US	6376194	B	23/04/2002
				US	20020001812	A	03/01/2002
				WO	0070041	A	23/11/2000
<hr/>							
US	20010014650	A1	16/08/2001	US	6806362	B	19/10/2004
				AT	271605	T	15/08/2004
				AU	5126100	A	05/12/2000
				CA	2372054	A	23/11/2000
				DE	60012318	D	00/00/0000
				EP	1179057	A,B	13/02/2002
				JP	2002543979	T	24/12/2002
				US	6310199	B	30/10/2001
				WO	0069872	A	23/11/2000
<hr/>							
US	20030171443	A1	11/09/2003	AU	3175901	A	12/09/2001
				CA	2400722	A	07/09/2001
				DE	10009982	A	06/09/2001
				EP	1259322	A	27/11/2002
				JP	2003525119	T	26/08/2003
				WO	0164342	A	07/09/2001
<hr/>							
US	20020001812	A1	03/01/2002	US	6376194	B	23/04/2002
				AT	272111	T	15/08/2004
				AU	774810	B	08/07/2004
				AU	4841500	A	05/12/2000
				CA	2372521	A	23/11/2000
				DE	60012506	D	00/00/0000
				EP	1179056	A,B	13/02/2002
				JP	2002543980	T	24/12/2002
				US	6270970	B	07/08/2001
				WO	0070041	A	23/11/2000